

LITTLE COLORADO RIVER BASIN

09400650 SINCLAIR WASH AT FLAGSTAFF, AZ

LOCATION.--Lat 35°09'50", long 111°40'48", in NW¹/₄NW¹/₄ sec.32, T.21 N., R.7 E., Coconino County, at Holmes Avenue in the community of Palmerville at Flagstaff.

DRAINAGE AREA.--8.11 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1970	09-05-70	¹ 401		1976	04-00-76	44	
1971	07-21-71	62		1977	08-09-77	23	
1972	12-28-71	105		1978	02-28-78	37	
1973	10-19-72	135		1979	12-18-78	295	
1974	08-01-74	1.0	LT	1980	02-20-80	70	
1975	10-30-74	74					

¹Highest since 1944.

Magnitude and probability of instantaneous peak flow based on period of record 1970-80

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2	5	10	25	50†	100†
50%	20%	10%	4%	2%	1%
74.2	168	260	416	566	748
Weighted skew	(logs) =	0.09			
Mean	(logs) =	1.88			
Standard dev.	(logs) =	0.42			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
69.9	4.8	7,200	88.0	3.0	22.5	2.2	4.0

